



In re application of  
Heinemann et al.  
Application No. 08/580,462  
Page 2

Atty. Dkt. No. SALK1590-3  
(088802-2454)

- [ ] Applicant hereby petitions for an extension of time under 37 C.F.R. §1.136(a) for the total number of months checked below:

[ ] Extension for response filed within the first month:	\$110.00	\$0.00
[ ] Extension for response filed within the second month:	\$400.00	\$0.00
[ ] Extension for response filed within the third month:	\$920.00	\$0.00
[ ] Extension for response filed within the fourth month:	\$1,440.00	\$0.00
[ ] Extension for response filed within the fifth month:	\$1,960.00	\$0.00
EXTENSION FEE TOTAL:		\$0.00
CLAIMS AND EXTENSION FEE TOTAL:		\$0.00
[ ] Small Entity Fees Apply (subtract ½ of above):		\$0.00
TOTAL FEE:		\$0.00

- [ ] Please charge Deposit Account No. 50-0872 in the amount of \$0.00. A duplicate copy of this transmittal is enclosed.
- [ ] A check in the amount of \$0.00 is enclosed.
- [ X ] The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 C.F.R. §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 50-0872. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 50-0872.

Please direct all correspondence to the undersigned attorney or agent at the address indicated below.

Respectfully submitted,

Date 10/3/02

By Stephen E. Reiter

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PATENT  
Attorney Docket No.: SALK1590-3  
(088802-2454)

**RESPONSE UNDER 37 CFR 1.116  
EXPEDITED PROCEDURE EXAMINING GROUP 1646**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: HEINEMANN et al.

Title: NEURONAL NICOTINIC  
ACETYLCHOLINE RECEPTOR  
COMPOSITIONS

Appl. No.: 09/580,462

Filing Date: May 26, 2000

Examiner: J. Ulm

Art Unit: 1646

<p><b>CERTIFICATION UNDER 37 CFR § 1.8</b> I hereby certify that the documents referred to as enclosed herein are being deposited with the United States Postal Service as first class mail on the date below, in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231</p> <p><i>Stephen E. Reiter, Reg. No. 31,192</i> (Printed Name) <i>[Signature]</i> (Signature) <i>10/3/02</i> (Date of Deposit)</p>
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**RECEIVED**  
OCT 10 2002  
TECH CENTER 1600/2900  
*[Handwritten initials and date 10/16/02]*

**AMENDMENT**

Box AF  
Commissioner for Patents  
Washington, D.C. 20231

Sir:

Responsive to the Office Action dated July 3, 2002 (Paper No. 9), please consider the following amendments and remarks.

**IN THE CLAIMS**

Please cancel claims 5-6, 8-9, 11-12 and 14-33, and add new claims 34-44 as follows. All claims, as they will stand upon entry of the amendments submitted herewith, are attached hereto as Appendix A.

34 (New). A substantially pure polynucleotide comprising DNA encoding a beta2 subunit of a neuronal acetylcholine receptor, wherein said DNA has greater than 64% sequence homology to the nucleotide sequence set forth in Figures 7B(1), 7B(2) and 7B(3), and

wherein said beta2 subunit has one or more functional properties selected from the group consisting of: